


NUMMINEN
Serial No. 10/520,932

Atty Dkt: 3670-56
Art Unit: 3662

AMENDMENTS TO THE SPECIFICATION:

 Please amend the paragraphs beginning at page 1, line ⁵ 1, and continuing to page 1, line ¹³ 14, as follows:

The invention refers to ~~a method for~~ enhancing the measuring accuracy in an antenna array comprising a number of antenna elements. ~~The A method~~ comprises the steps-acts of;

- receiving analog signals on a number of m antenna array elements, and;
- producing a radiation diagram for the array from the values in the signals.

~~The invention-technology~~ also refers to an antenna array system comprising

Please amend the paragraph beginning at page 2, line 27, and continuing to page 2, line 30, as follows:

It is a desirable feature for an antenna system to have the ability to detect and estimate the direction of arrival of the target with a reasonable probability (reasonably low standard deviation). An optimum is thus sought for the trade ~~of off~~ between low standard deviation and low SNR.

Please amend the paragraph beginning at page 4, line 10, and continuing to page 4, line 14, as follows:

It is an object of the ~~invention-technology~~ to diminish random errors regarding the resolving probability of the target when trying to narrow the main lobe, in order to get better estimation of the direction-of-arrival of a target. It is thus an object of the ~~invention~~

The ~~invention technology~~ may thus be used by dynamically altering the antenna array such that interadjacent antenna elements are switched off or reduced until only the outermost antenna elements remain.

The benefits of the ~~invention technology above method~~ will become apparent when describing the example embodiments below.

Please amend the paragraph beginning at page 11, line 25, and continuing to page 11, line 26, as follows:

Fig. 1 shows an antenna array according to one example embodiment of the ~~invention~~, with a number of t₁-t₄ configurations in time.


 0114108
Please amend the paragraph beginning at page 12, line ²⁶~~27~~, and continuing to page 12, line ³⁰~~31~~, as follows:

Fig 11 diagrammatically shows a block diagram over the method according to the ~~invention~~ according to one example embodiment.

Please amend the caption on page 13, line 1 as follows:

~~MODES FOR CARRYING OUT THE INVENTION~~DETAILED DESCRIPTION

Please amend the paragraph beginning on page 13, line 14, and continuing to page 13, line 31, as follows:

Fig. 1 shows an antenna array 1 according to one example embodiment of the ~~invention~~ comprising five antenna elements 2, with a number of configurations in time.